USAFETAC/TN--93/003

TAFVER II

Users Manual

By

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USAF
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

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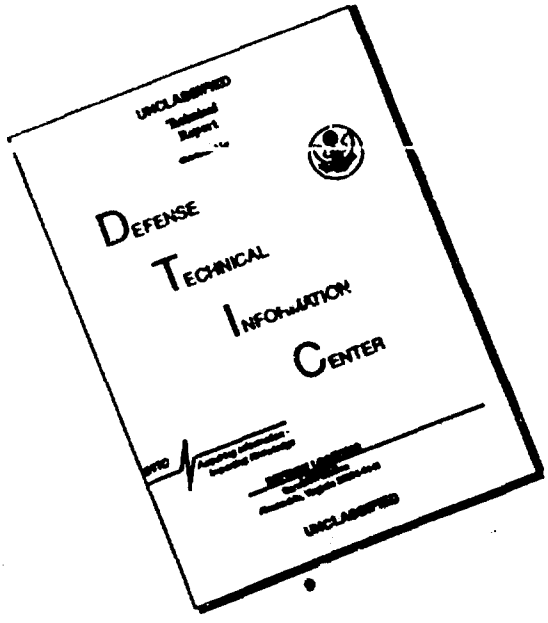

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13. Abstract: TAFVER II is an automated quality control program designed to provide headquarters staff (at HQ USAF/XOW, HQ Air Weather Service, and the Major Command Directorates of Weather) a tool they can use to measure the quality of weather forecasting support provided by the Air Force weather community. The TAFVER II program, run by the USAF Environmental Technical Applications Center (USAFETAC) at Scott AFB, verifies all Terminal Aerodrome Forecasts (TAFs) issued by Air Force weather forecasters, providing there are corresponding observations against which to verify them. TAFVER II accomodates customer-tailored output by incorporating command-unique category thresholds. This technical note tells users how the TAFVER II program verifies weather forecasts and explains the output statistics. Appendices provide major command verification categories and USAFETAC's weather station information databases.

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PREFACE

This users manual is based on the results of USAFETAC Project 920314, which was performed for HQ Air Weather Service by USAFETAC's Simulations and Techniques Branch (SYT). It is intended to help users understand and exploit the advantages of the latest weather forecasting quality control program, TAFVER II.

TAFVER II was designed to expand on the capabilities of the original automated Terminal Aerodrome Forecast Verification (TAFVER) program. TAFVER II includes several new features not available in the original; these include verification of five additional TAF elements, verification of combinations of TAF elements, verification of INTER groups, user-specified category thresholds, and a wide variety of grouping methods for the statistical output.

The author wishes to acknowledge those people most directly responsible for making TAFVER II a reality; they are Maj Walter Miller, Capt Norman Gonzales, Capt Kris McKinney, Capt Chris Cundiff, TSgt Robert Lehrman, SSgt C. Michael Whitney, A1C Douglas Stave, Amn Dean Waskom, Mr Vann Gibbs, Mr Tom Kotz, and the programmers at USAFETAC's Operating Location A in Asheville, NC.

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1. INTRODUCTION

1.1 Background. TAFVER II is an automated quality control program designed to provide headquarters staff (at HQ USAF/XOW, HQ Air Weather Service, and the Major Command Directorates of Weather) a tool they can use to measure the quality of weather forecasting support provided by the Air Force weather community. The TAFVER II program, run by USAFETAC at Scott AFB, verifies all Terminal Aerodrome Forecasts (TAFs) issued by Air Force weather forecasters, providing there are corresponding observations against which to verify them.

1.2 Verification Category Thresholds. TAFVER II was designed to provide customer-tailored output. Unique sets of category thresholds provided by each Major Command (MAJCOM) are used to verify TAFs for each MAJCOM's base weather stations. To facilitate comparisons among MAJCOMs, a separate set of thresholds provided by Air Weather Service (AWS) is used for verification at *all* USAF forecasting stations. TAFVER II verification category thresholds are given in Appendix A.

1.3 Output Groupings. Overall verification statistics are calculated for MAJCOMs as well as for each individual forecasting station. Statistics can also be determined for a geographic region or for a specific type of aircraft supported. Appendiices B and C give the station information database used by USAFETAC to calculate these grouped statistics. The accuracy of this database depends on timely inputs from the field.

1.4 Report Transmittal Procedures. TAFVER II reports are mailed to the field quarterly, about a month after the end of each quarter. Send requests for "non-standard" TAFVER II reports (i.e., those that require information not provided routinely in quarterly reports) to USAFETAC/DOO; see USAFETAC/TN--92/001,*Capabilities, Products, and Services of USAFETAC,* for specific request procedures and formats.

1.5 Feedback. Call AWS/XTA (DSN 576-4625) or USAFETAC/DOO (DSN 576-4024) with comments and suggestions on how the TAFVER II program can be modified to better suit your needs.

1.6 Future Capabilities. Eventually, users will have direct access to TAFVER II data through ETAC's "Dial-In" service, which will allow downloading of monthly TAFVER II reports via modem.

2. VERIFICATION PROCEDURES

2.1 Overview. TAFVER II provides categorical skill scores and statistics, as well as non-categorical measures of accuracy (root mean square error and mean relative error). Every category of most TAF elements (wind direction, wind speed, wind gusts, visibility, ceiling, altimeter setting, and present weather) is verified for each TAF at every hour, using the observation at the corresponding cardinal hour. The "persistence forecast" is also verified for each element, each category, and each hour. Persistence forecasts assume that each element maintains the value it had in the observation at the time the forecast was issued. In addition, TAFVER II verifies INTER groups and amended forecasts, as will be described later.

2.2 Categorical Verification--Contingency Tables. TAFs are verified by constructing contingency tables for each category of each weather element. Tables simlilar to the examples shown here are constructed for each TAF element and hour, and are used to caclulate the statistical values shown later in 2.2.1.1 through 2.2.1.7. These tables make it possible to compare values calculated for observations vs. forecasts and for observations vs. persistence.

Example Contingency Tables--Ceiling <200 feet at 3-hour Point

Forecasts

OBS		Yes	No
	Yes	# of occurrences (A)	# of occurrences (B)
	No	# of occurrences (C)	# of occurrences (D)

Persistence

OBS		Yes	No
	Yes	# of occurrences (A)	# of occurrences (B)
	No	# of occurrences (C)	# of occurrences (D)

2.2.1 Categorical Skill Scores and Statistics. The categorical skill scores and verification statistics produced by TAFVER II are described below. The equations use "A, B, C, and D" as they are defined in the tables on page 2.

2.2.1.1 Heidke Skill Score (HSS). The Heidke skill score eliminates the number of forecasts that would have been correct by chance and computes a score (ranging from -1 to +1) based on the remaindr. A *negative* score indicates performance *worse than chance*, while zero indicates performance *equal to chance*. A score of +1 indicates a totally accurate forecast.

$$HSS = \frac{2(AD - BC)}{(A+B)(B+D) + (A+C)(C+D)}$$

The Heidke skill score is "trial dependent," meaning that its outcome is biased by the ratio of occurrences vs non-occurrences. This bias is especially evident when computing skill scores for forecasts of rare events (events with a high number of non-occurrences). In these cases, high Heidke skill scores can be obtained even when the event is never correctly forecast. The "Discriminant V" skill score (described below) eliminates this bias.

2.2.1.2 Hanssen and Kuiper's Discriminant (V).

$$V = \frac{AD - BC}{(A+B)(C+D)}$$

The V discriminant yields skill scores that are independent of trial conditions, providing an unbiased estimate of forecast accuracy. The V score therefore performs better than the Heidke score when measuring the skill of rare-event forecasting (Woodcock, 1976). It also ranges from -1 to +1.

Along with the skill scores described so far, TAFVER II also provides the following familiar measures of forecast accuracy:

2.2.1.3 Percent Correct. This is simply the number of correctly forecast events divided by the total:

$$\% \ Correct = \frac{A + D}{A + B + C + D}$$

2.2.1.4 Capability is the number of correct forecasts divided by the number of observed occurrences of the event. It is calculated for "yes" and "no" forecasts separately, as discussed below.

- *Capability for "Yes" Forecasts.* In this case the capability shows the number of correctly classified forecasts over the total number of observed occurrences for a given category. The higher the capability, the fewer missed occurrences.

$$Capability = \frac{A}{A + B}$$

- *Capability for "No" Forecasts is* calculated as follows:

$$Capability = \frac{D}{C + D}$$

2.2.1.5 Reliability. This is the number of correct forecasts divided by the number of forecasts issued for the event. As with capability, reliability is calculated for "yes" and "no" forecasts separately. Note that the *false alarm rate* (FAR) = 1 - Reliability.

• *Reliability for "Yes" Forecasts.*

$$Reliability = \frac{A}{A + C}$$

In the "yes" forecast case, *reliability* shows the number of correctly classified forecasts over the total number of forecasts for a given category. The higher the reliability, the fewer false alarms.

• *Reliability for "No" Forecasts* is calculated as follows:

$$Reliability = \frac{D}{B + D}$$

2.2.1.6 Correlation coefficient (r). The correlation coefficient provides the linear correlation between observed and forecast events:

$$r = \frac{(AD - BC)}{\sqrt{(A + B)(A + C)(C + D)(B + D)}}$$

2.2.1.7 Critical Success Index (CSI) is the number of correct predictions divided by the sum of the hits, false alarms, and missed forecasts.

$$CSI = \frac{A}{A + B + C}$$

2.3 Non-Categorical Verification. In addition to categorical verification statistics (yes/no occurrences of various threshold values), TAFVER II also provides a root mean square error (RMSE) and a mean relative error (MRE). The RMSE can be thought of as the average difference between the forecast and observed values for a given element. The MRE is similar, except that it provides the mean percent error between the forecast value and the observed value. RMSE and MRE are calculated for the following elements:

- Ceiling Height (feet)
- Wind Direction (degrees) (RMSE only)
- Visibility (meters)
- Altimeter Setting (inches)
- Wind Speed and Gust Speed (knots)

2.3.1 RMSE and MRE. RMSE and MRE are calculated as follows for all elements except wind direction:

$$RMSE = \sqrt{\frac{\sum (F_i - O_i)^2}{N}}$$

$$MRE = \frac{\sqrt{\frac{\sum (F_i - O_i)^2}{O}}}{N}$$

where:

F_i = the forecast condition
O_i = the observed condition
N = the number of forecasts.

2.3.1.1 RMSE for Wind Direction. RMSE for wind direction is calculated as shown below:

$$RMSE = \sqrt{\frac{\sum (F_i - O_i)^2}{N}}$$

where:

If $(F_i - O_i) > 180$, Then
$(F_i - O_i) = (360 - |F_i - O_i|)$

2.3.1.2 RMSE for Visibility. The following rules are used to calculate RMSE for visibility forecasts:

• If unrestricted visibility (9999) is forecast and the observed visibility is *7 miles or greater*, the error will be zero.

• If unrestricted visibility is forecast and the observed visibility is *less than 7 miles*, RMSE is calculated as if the forecast was for 7 miles (e.g., if the forecast was for 9999 and 9000 (6 miles) was observed, the error would be 1 mile (1,600 meters)).

2.3.1.3 RMSE for Ceilings. The following rules are used to calculate RMSE for ceiling forecasts:

• RMSE for ceilings is calculated individually for each category to remove the bias that occurs due to errors in forecasting high-cloud ceilings. For example, a forecast for a 15,000-foot ceiling with an observed 20,000-foot ceiling would result in a 5,000-foot error, which is normally not important operationally..

• RMSE is only calculated if a ceiling height is forecast. When no ceiling is forecast and a ceiling is observed (infinite error), no RMSE will be calculated.

2.4 Verification of INTER Groups. An INTER group successfully verifies if the conditions specified are observed, if they persist for no longer than 30 minutes at a time (45 minutes for thunderstorms), and if the total amount of time the conditions are observed is less than half the duration of the INTER group.

TAFVER II verifies INTER groups as follows:

• Were INTER group conditions observed?

If NO, the entire INTER group verifies as a "miss"(all INTER hours verify as a miss).

If YES, do conditions persist for longer than 30 minutes (45 for TSTMS), and/or does the sum of the time the conditions occur equal half or more of the total time for the INTER group?

If YES, the entire INTER group verifies as a "miss" (all INTER hours verify as a miss).

If NO, and if the previous two conditions have been met, determine whether or not (YES or NO) the conditions specified actually ocurred for each hour within the INTER group. If "YES," that hour verifies as a "hit". If "NO," that hour verifies as a "miss". Count the total number of hours of "hits" and "misses" and report as the number of INTER hours successfully verified divided by the number of INTER hours forecast, which equals percent successfully verified.

2.5 Verification of Amendments. Amendments are verified in the the same way as regular TAFs, except that only the first 6 hours of the amended forecast is verified, starting from the time the amendment is issued. This is done to avoid unfairly biasing the statistics for long-term forecasts (at the 12-, 18-, and 24-hour points). An amended forecast will often be identical to a previously issued forecast at the 12- through 24-hour points. If these conditions turn out to be incorrect, the verification statistics are calculated using two "busted" forecasts; they will therefore be biased toward unsuccessful verification. If both the original TAF and the amendment were correct, the verification statistics at the 12-through 24-hour point will

be incorrectly biased toward *successful* verification. TAFVER II provides a count of the total number of amendments issued, as well as the total number of "regular" TAFs issued, as shown below.

# of TAFs	# of Amendments
750	135

Note that all elements are included in the statistics for amended TAFs, even those that were not changed by the amendment.

2.6 Elements to be Verified. The TAF elements verified and the types of statistical output generated are described below.

2.6.1 Wind Direction. RMSE is computed in degrees. If requested, it can be provided in up to eight categories; it is verified with a contingency table.

2.6.2 Wind Speed. RMSE is computed in knots. TAFVER II can provide wind speeds in up to eight categories, and can vary the threshold values for those categories based on customer requirements. It is also verified with contingency tables.

2.6.3 Wind Gusts. Same as wind speed.

2.6.4 Surface Visibility. MSE is calculated in meters. To compute RMSE, Airways observations are converted from miles to meters. Up to eight categories can be verified with contingency tables.

2.6.5 Present Weather. If requested, TAFVER II can verify up to three present weather types per forecast. It is also verified with contingency tables. Unless specified by the user, present weather forecasts are verified using the code groupings shown in the following list; for example, a forecast of "62RA" will be successfully verified by an observation of any of the code values listed for liquid precipitation.

Weather	Code(s)
Smoke	04
Haze	05
Dust	06-08
Fog	10-12, 42-49
Funnel Cloud	19
Liquid Precip	50-55, 58-65, 80-82, 91-92
Frozen Precip	56-57, 66-75, 77, 79, 83-90, 93-94
Thunderstorm	17, 95-99

2.6.6 Altimeter Setting. RMSE is calculated in hundredths of inches.

2.6.7 Ceiling. A maximum of eight categories (again with thresholds specified by MAJCOMs) are verified with contingency tables. RMSE is computed in feet for each category.

2.6.8 Combinations of Elements. TAFVER II can also verify the joint occurrence of any two weather elements specified by a customer. Examples of combinations are ceiling/visibility and precipitation/crosswind. Up to five combinations can be provided, with up to eight categories specified for each combination.

3. TAFVER II OUTPUT

3.1 Contingency Tables. TAFVER II has the capability to display contingency tables containing raw data for each category of each TAF element, at each hour, followed by the statistics for that category. It can also display the same output for the persistence forecast. The figure at the bottom of this page is an example of this type of output.

Because of the size of the output, only the 3-, 6-, 12-, 18-, and 24-hour points are normally included. Verification statistics for any other hour (or for all 24 hours) are available on request. MAJCOMs can request modifications to the types of information in their reports; for example, which statistics to include and which categories to display in tabular output.

3.2 Summary Tables. In addition to displaying each category of each element individually, TAFVER can also display summary tables that show verification results for each element with the categories combined; for example, "hits" and "misses" for all categories of ceiling combined.

3.3 Groupings. The database USAFETAC uses to determine TAFVER II output stratification is shown in Appendices A and B. The data can be grouped in a variety of ways, including:

- MAJCOM
- Geographic Region
- Climatic Region
- Aircraft Type
- Customer-Specified Station List (such as providing Army support).

3.4 Reports. Reports are sent quarterly, but results are displayed for each month within the quarter. Verification data and statistics are archived for future use.

Example Single-Category Output Format

CEILING HEIGHT BETWEEN 0 AND 200 FEET AT THE 1 HOUR POINT

FORECASTS

	YES	NO	SUM
YES	48	2	50
NO	6	249	255
SUM	54	251	305

AMENDMENTS

	YES	NO	SUM
YES	26	3	29
NO	2	121	123
SUM	28	124	152

PERSISTENCE

	YES	NO	SUM
YES	50	0	50
NO	0	255	255
SUM	50	255	305

STATISTICAL RESULTS FROM CONTINGENCY TABLES

	%	CAP YES	CAP NO	REL YES	REL NO	R	CSI	H	V	RMSE	MRE
FCST	97	.98	.98	.89	.99	.91	.86	.91	.94	55.25	.10
AMND	97	.90	.98	.93	.98	.89	.84	.89	.88	N/A	N/A
PERS	100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0

% = PERCENT CORRECT
CAP = CAPABILITY (RANGE = 0 to 1)
REL = RELIABILITY (RANGE = 0 TO 1)
R = CORRELATION COEFFICIENT (RANGE = -1 TO 1)
CSI = CRITICAL SUCCESS INDEX (RANGE = 0 TO 1)
H = HEIDKE SKILL SCORE (RANGE = -1 TO 1)
V = V DISCRIMINANT SKILL SCORE (RANGE = -1 TO 1)
RMSE = ROOT MEAN SQUARE ERROR
MRE = MEAN RELATIVE ERROR (%)

4. POSSIBLE SOURCES OF DISCREPANCIES

4.1 Overview. Because of the techniques used, TAFVER II statistics may occasionally differ slightly from those calculated by hand at individual weather stations. Possible sources for these discrepancies are discussed below.

4.2 Missing Data. Although USAFETAC makes every effort to ensure receipt of as complete a set of TAFs and observations as possible, absolute serial completeness is impossible because of hardware and communications. problems, coding errors, etc. Since the missing observations and TAFs are randomly distributed, the statistics calculated from an incomplete dataset will still be valid. However, if a missing observation is the one that verifies (or busts) a rare event forecast, it will show up as a discrepancy between TAFVER II and in-house verification statistics.

4.3 Coding Errors. The TAF decoder rejects any TAF that does not strictly adhere to the TAF code. Since verification is performed weeks after the TAF was issued, error messages to the field are impractical. Although the automated TAFVER program at AFGWC will remain operational for now and will continue to flag certain types of errors, it will not guarantee that a TAF is successfully decoded by TAFVER II. USAFETAC monitors the database for trends in rejected TAFs, and notifies affected base weather stations whenever there are consistent coding errors.

4.4 Short-Lived Changes in Weather Conditions. Forecasts do not need to be amended to reflect weather conditions that don't persist for more than 20 minutes. If these short-lived conditions occur at a verification hour, however, they will be reflected as "unforecast."

4.5 Amendments. As explained previously, only the first 6 hours of amended forecasts are verified by TAFVER II. The reason for this is to avoid unfairly biasing the statistics for long-term forecasts (i.e., at the 12-, 18-, and 24-hour point).

4.6 Remarks. TAFVER II neither decodes nor verifies conditions specified in the REMARKS section of the TAF. For example, a remark such as "WND 25005 AFT 12" is not read by the verification software, and verification statistics will not reflect such a change.

Appendix A

USER VERIFICATION CATEGORY THRESHOLDS

Air Mobility Command (AMC)

1. **Wind Speed.**

	A < 5 kts
5 kts ≤	B < 15 kts
15 kts ≤	C < 25 kts
25 kts ≤	D < 35 kts
	E ≥ 35 kts

2. **Wind Gusts.**

	A < 25 kts
25 kts ≤	B < 35 kts
35 kts ≤	C < 50 kts
	D ≥ 50 kts

3. **Visibility.**

	A < 0.5 mi (< 0800 meters)
0.5 mi ≤	B < 1 mi (1600 meters)
1 mi ≤	C < 2 mi (3200 meters)
2 mi ≤	D < 3 mi (4800 meters)
	E ≥ 3 mi

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 1000 ft
1000 ft ≤	C < 1500 ft
1500 ft ≤	D < 3000 ft
	E ≥ 3000 ft

5. **Ceiling/Visibility Combinations.**

	A < 200/.5
200/.5 ≤	B < 1000/2
1000/2 ≤	C < 3000/3
	D ≥ 3000/3

6. **Miscellaneous.** AMC requests that *hail* (present weather codes 87-90, 93- 94, 96, and 99) be verified separately.

Headquarters Air Weather Service

1. **Wind Speed.**

	A < 25 kts
25 kts ≤	B < 35 kts
35 kts ≤	C < 50 kts
	D ≥ 50 kts

2. **Wind Gusts.**

	A < 25 kts
25 kts ≤	B < 35 kts
35 kts ≤	C < 50 kts
	D ≥ 50 kts

3. **Visibility.**

	A < 0.5 mi (0800 meters)
0.5 mi ≤	B < 1 mi (1600 meters)
1 mi ≤	C < 2 mi (3200 meters)
2 mi ≤	D < 3 mi (4800 meters)
	E ≥ 3 mi

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 1000 ft
1000 ft ≤	C < 3000 ft
	D ≥ 3000 ft

5. **Ceiling/Visibility Combinations.**

	A < 200/.5
200/.5 ≤	B < 500/1
500/1 ≤	C <1000/2
1000/2 ≤	D < 3000/3
	E ≥ 3000/3

6. **Present Weather.** Verify forecasts of the following present weather code types:

TSTM: Codes 17, 95, 96, 97, 98, 99
Frzg Precip: Codes 48, 49, 56, 57, 66, 67,
Rain: Codes 50-55, 58-65, 68, 69, 80-84, 91
Snow: Codes 36-39, 68-79, 83-90, 93, 94

Air Force Materiel Command (AFMC)

1. **Wind Speed.**

	A < 25 kts
25 kts ≤	B < 35 kts
	C ≥ 35 kts

2. **Wind Gusts.**

	A < 35 kts
35 kts≤	B < 50 kts
	C ≥ 50 kts

3. **Visibility.**

	A < .5 mi (0800 meters)
.5 mi ≥	B < 2 mi (3200 meters)
2 mi ≤	C < 3 mi (4800 meters)
	D ≥ 3 mi

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 1000 ft
1000 ft ≤	C < 1500 ft
1500 ft ≤	D < 3000 ft
	E ≥ 3000 ft

5. **Ceiling/Visibility Combinations.**

	A < 200/.5
200/.5 ≤	B < 1500/3
1500/3 ≤	C < 3000/3
	D ≥ 3000/3

Air Combat Command (ACC)

1. **Wind Speed.**

	A < 10 kts
10 kts ≤	B < 20 kts
20 kts ≤	C < 30 kts
30 kts ≤	D < 40 kts
40 kts ≤	E < 50 kts
	F ≥ 50 kts

2. **Wind Gusts.**

	A < 15 kts
15 kts ≤	B < 30 kts
30 kts ≤	C < 45 kts
45 kts ≤	D < 60 kts
	E ≥ 60 kts

3. **Visibility.**

	A < .5 mi (0800 meters)
.5 mi ≤	B < 1 mi (1600 meters)
1 mi ≤	C < 2 mi (3200 meters)
2 mi ≤	D < 3 mi (4800 meters)
	E ≥ 3 mi

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 600 ft
600 ft ≤	C < 1000 ft
1000 ft ≤	D < 1500 ft
1500 ft ≤	E < 2000 ft
2000 ft ≤	F < 2500 ft
2500 ft ≤	G < 3000 ft
	H ≥ 3000 ft

5. **Ceiling/Visibility Combinations.**

	A < 200/.5
200/.5 ≤	B < 1000/2
1000/2 ≤	C < 3000/3
	D ≥ 3000/3

Air Education and Training Command (AETC)

1. **Wind Speed.**

	A < 20 kts
20 kts ≤	B < 25 kts
	C > 25 kts

2. **Wind Gusts.**

	A < 25 kts
25 kts ≤	B < 35 kts
	C > 35 kts

3. **Visibility.**

	A < .5 mi (0800 meters)
.5 mi ≤	B < 1 mi (1600 meters)
1 mi ≤	C < 3 mi (4800 meters
	D ≥ 3 mi

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 500 ft
500 ft ≤	C < 1500 ft
1500 ft ≤	D < 3000 ft
	E ≥ 3000 ft

5. **Ceiling/VisibilityCombinations.**

	A < 200/.5
200/.5 ≤	B < 500/1
500/1 ≤	C < 1500/3
1500/3 ≤	D < 3000/3
	E ≥ 3000/3

6. **Miscellaneous.** Verify joint occurrences of wind speed > 20kts with precipitation (present weather codes > 50). AETC would also like to verify crosswinds ≥ 17kts; this requires cross-referencing with runway headings.

Air Force Special Operations Command (AFSOC)

1. **Wind Speed.**

	A < 13 kts
13 kts ≤	B < 30 kts
	C ≥ 30 kts

2. **Visibility.**

	A < .5 mi (0800 meters)
.5 mi ≤	B < 1 mi (1600 meters)
1 mi ≤	C < 3 mi (4800 meters)
	D ≥ 3 mi

3. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 500 ft
500 ft ≤	C < 1000 ft
1000 ft ≤	D < 1500 ft
1500 ft ≤	E < 3000 ft
3000 ft ≤	F < 5000 ft
	G ≥ 5000 ft

4. **Ceiling/Visibility Combinations.**

	A < 200/.5
200/.5 ≤	B < 500/2
500/2 ≤	C < 1500/3
	D ≥ 1500/3

USAF in Europe (USAFE)

1. **Wind Speed.**

	A < 5 kts
5 kts ≤	B < 10 kts
10 kts ≤	C < 15 kts
15 kts ≤	D < 20 kts
20 kts ≤	E < 25 kts
25 kts ≤	F < 30 kts
30 kts ≤	G < 40 kts
	E ≥ 40 kts

2. **Wind Gusts.**

	A < 15 kts
15 kts ≤	B < 25 kts
25 kts ≤	C < 30 kts
30 kts ≤	D < 35 kts
35 kts ≤	E < 40kts
40 kts ≤	F < 45 kts
45 kts ≤	G < 50 kts
50 kts ≤	H < 65 kts
	I ≥ 65 kts

3. **Visibility.**

	A < .25 mi (0400 meters)
.25 mi ≤	B < .5 mi (0800 meters)
.5 mi ≤	C < 1 mi (1600 meters)
1 mi ≤	D < 1.5 mi (2400 meters)
1.5 mi ≤	E < 2 mi (3200 meters)
2 mi ≤	F < 3 mi (4800 meters)
3 mi ≤	G < 5 mi (8000 meters)
	H ≥ 5 mi

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 300 ft
300 ft ≤	C < 500 ft
500 ft ≤	D < 700 ft
700 ft ≤	E < 1000 ft
1000 ft ≤	F < 3000 ft
3000 ft ≤	G < 10,000 ft
10,000 ft ≤	H < 20,000 ft
	I ≥ 20,000 ft

5. **Ceiling/Vibility Combinations.**

	A < 200/.5
200/.5 ≤	B < 300/.5
300/.5 ≤	C < 500/1
500/1 ≤	D > 1000/2
1000/2 ≤	E < 1000/3
1000/3 ≤	F < 3000/3
	G ≥ 3000/3

6. **Miscellaneous.** Verify "any precipitation" as a "YES/NO," based on whether or not present weather codes ≥ 50 are forecast/ observed. USAFE has requested verification statistics calculated for the first 6 hours of the TAF, as well as for the 12th and 24th hour.

Pacific Air Forces (PACAF)

1. **Wind Speed**

	A < 15 kts
15 kts ≤	B < 20 kts
20 kts ≤	C < 25 kts
	D ≥ 25 kts

2. **Wind Gusts.**

	A < 20 kts
20 kts ≤	B < 25 kts
25 kts ≤	C < 30 kts
30 kts ≤	D < 35 kts
	E ≥ 35 kts

3. **Visibility.**

	A < .5 mi (0800 meters)
.5 mi ≤	B < 1 mi (1600 meters)
1 mi ≤	C < 2 mi (3200 meters)
2 mi ≤	D < 3 mi (4800 meters)
	E ≥ 3 mi

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 500 ft
500 ft ≤	C < 700 ft
700 ft ≤	D < 1000 ft
1000 ft ≤	E < 1500 ft
1500 ft ≤	F < 3000 ft
	G ≥ 3000 ft

5. **Ceiling/Visibility Combinations.**

	A < 200/.5
200/.5 ≤	B < 500/1
500/1 ≤	C < 700/2
700/2 ≤	D < 1000/2
1000/2 ≤	E < 1500/3
1500/3 ≤	F < 3000/3
	G ≥ 3000/3

Air Force Space Command (AFSPACECOM)

1. **Wind Speed.**

	A < 10 kts
10 kts ≤	B < 25 kts
25 kts ≤	C < 35 kts
35 kts ≤	D < 50 kts
	E ≥ 50 kts

2. **Wind Gusts.**

	A < 25 kts
25 kts ≤	B < 35 kts
35 kts ≤	C < 50 kts
	D ≥ 50 kts

3. **Visibility.**

	A < .25 mi (0400 meters)
25 mi ≤	B < .5 mi (0800 meters)
.5 mi ≤	C < 1 mi (1600 meters)
1 mi ≤	E < 3 mi (3200 meters)
3 mi ≤	F < 7 mi (9000 meters)
	G ≥ 7 mi (9000 meters)

4. **Ceiling.**

	A < 200 ft
200 ft ≤	B < 700 ft
700 ft ≤	C < 1000 ft
1000 ft ≤	D < 1500 ft
1500 ft ≤	E < 3000 ft
3000 ft ≤	F < 10,000 ft
10,000 ft ≤	H < 18,000 ft
	I ≥ 18,000 ft

5. **Ceiling/Visibility Combinations.**

	A < 700/1
700/1 ≤	B < 1500/3
1500/3 ≤	C < 3000/3
	D ≥ 3000/3

Appendix B

TAFVER II STATION INFORMATION

MAJCOM	BASE	UNIT	ICAO	CLIMATIC REGION	RNWY	BLKSTN	GEO-REGION
ACC	BARKSDALE AFB, LA	2 OSS/DOW	BAD	GULF COAST MARITIME	150	722485	GULF COAST
ACC	BEALE AFB,CA	9 OSS/DOW	BAB	WEST COAST CONTINENTAL	150	724837	WEST COAST
ACC	BERGSTROM AFB, TX	67 RW/DOMS	BSM	GULF COAST MARITIME	170	722545	GULF COAST
ACC	CANNON AFB, NM	7 OSS/OSW	CVS	S PLAINS CONTINENTAL	40	722686	GREAT PLAINS
ACC	CASTLE AFB, CA	93 OSS/DOW	MER	WEST COAST CONTINENTAL	130	724810	WEST COAST
ACC	DAVIS-MONTHAN AFB, AZ	355 OSS/OSW	DMA	DESERT CONTINENTAL	120	722745	SOUTHWEST
ACC	DYESS AFB, TX	96 OSS/DOW	DYS	S PLAINS CONTINENTAL	160	690190	GREAT PLAINS
ACC	ELLINGTON FIELD, TX	ANG	EFD	GULF COAST MARITIME	40	722436	GULF COAST
ACC	ELLSWORTH AFB, SD	28 OSS/OSAW	RCA	HIGH PLAINS CONTINENTAL	130	726625	GREAT PLAINS
ACC	FAIRCHILD, AFB WA	92 OSS/OSW	SKA	INTER MTN CONTINENTAL	50	727855	ROCKY MTNS
ACC	GRAND FORKS, AFB ND	319 OSS/DOW	RDR	N PLAINS CONTINENTAL	170	727575	GREAT PLAINS
ACC	GRIFFISS, AFB NY	416 OSS/DOW	RME	GREAT LAKES	150	725196	NORTHEAST
ACC	HOLLOMAN, AFB NM	49 OSS/OSW	HMN	DESERT CONTINENTAL	160	747320	SOUTHWEST
ACC	HOWARD, AFB PM	24 WS	MPHO	Not Assigned	180	788060	NONE
ACC	JACKSONVILLE ANGB, FL	ANG	JAX	FLORIDA MARITIME	70	722060	SOUTHEAST
ACC	K.I. SAWYER, AFB MI	410 OSS/DOW	SAW	GREAT LAKES	10	727435	CENTRAL U.S.
ACC	LANGLEY, AFB VA	1 OG/WS	LFI	ATLANTIC COAST MARITIME	80	745980	SOUTHEAST
ACC	LORING, AFB ME	42 OSS/DOW	LIZ	NONE	10	727125	NORTHEAST
ACC	LUKE, AFB AZ	58 OSS/OSSW	LUF	DESERT CONTINENTAL	30	722785	SOUTHWEST
ACC	MACDILL, AFB FL	56 OSS/WF	MCF	FLORIDA MARITIME	40	747880	SOUTHEAST
ACC	MCCONNELL, AFB KS	384 OSS/DOW	IAB	N PLAINS CONTINENTAL	10	724505	GREAT PLAINS
ACC	MCENTIRE ANGB, SC	ANG	MMT	ATLANTIC COAST MARITIME	140	723105	SOUTHEAST
ACC	MINOT, AFB ND	5 OSS/DOW	MIB	N PLAINS CONTINENTAL	110	727675	GREAT PLAINS
ACC	MOODY, AFB GA	347 OSS/DOFW	VAD	FLORIDA MARITIME	180	747810	SOUTHEAST
ACC	MOUNTAIN HOME, AFB ID	366 OSS/OSW	MUO	INTER MTN CONTINENTAL	120	726815	ROCKYMTNS
ACC	NELLIS, AFB NV	57 OSS/0SW	LSV	DESERT CONTINENTAL	30	723865	SOUTHWEST
ACC	OFFUTT, AFB NE	55 OSS/DOW	OFF	N PLAINS CONTINENTAL	120	725540	GREAT PLAINS
ACC	OTIS ANGB, MA	ANG	FMH	NORTHEAST MARITIME	140	725060	NORTHEAST
ACC	POPE, AFB NC	317 OSS/WXF	POB	ATLANTIC COAST MARITIME	50	723030	SOUTHEAST
ACC	SEYMOUR JOHNSON, NC	4 OPG/OSW	GSB	ATLANTIC COAST MARITIME	80	723066	SOUTHEAST
ACC	SHAW, AFB SC	363 OSS/OSW	SSC	ATLANTIC COAST MARITIME	40	747900	SOUTHEAST

MAJCOM	BASE	UNIT	ICAO	CLIMATIC REGION	RNWY	BLKSTN	GEO-REGION
ACC	TYNDALL, AFB FL	325 OSS/DOM	PAM	FLORIDA MARITIME	130	747750	GULF COAST
ACC	WHITEMAN, AFB MO	351 OSS/DOW	SZL	MIDWEST CONTINENTAL	10	724467	GREAT PLAINS
ACC (USA)	FORT BELVOIR, VA	DET 2, 1 WXG	DAA	NORTHEAST MARITIME	140	724037	NORTHEAST
ACC (USA)	FORT BENNING, GA	DET 10, 1 WXG	LSF	GULF COAST MARITIME	140	722250	GULF COAST
ACC (USA)	FORT BLISS, TX	OL-A, DET 14	BIF	DESERT CONTINENTAL	30	722704	SOUTHWEST
ACC (USA)	FORT BRAGG, NC	DET 3, 1 WXG	FBG	ATLAN COAST MARITIME	90	746930	SOUTHEAST
ACC (USA)	FORT CAMPBELL, KY	DET 1, 1 WXG	HOP	MIDWEST CONTINENTAL	40	746710	GULF COAST
ACC (USA)	FORT CARSON, CO	DET 58, 1 WXG	FCS	HIGH PLAINS CONTINENTAL	130	724680	ROCKY MTNS
ACC (USA)	FORT DRUM, NY	DET 4, 1 WXG	GTB	GREAT LAKES	30	743700	NORTHEAST
ACC (USA)	FORT EUSTIS, VA	DET 13, 1 WXG	FAF	ATLAN COAST MARITIME	140	723087	SOUTHEAST
ACC (USA)	FORT HOOD, TX	DET 14, 1 WXG	GRK	S PLAINS CONTINENTAL	150	722576	GREAT PLAINS
ACC (USA)	FORT KNOX, KY	DET 5, 1 WXG	FTK	MIDWEST CONTINENTAL	180	724240	CENTRAL U.S.
ACC (USA)	FORT LEWIS, WA	DET 6, 1 WXG	GRF	NONE	150	742070	WEST COAST
ACC (USA)	FORT ORD, CA	DET 7, 1 WXG	OAR	NONE	110	690070	WEST COAST
ACC (USA)	FORT POLK, LA	DET 31, 1 WXG	POE	GULF COAST MARITIME	150	722390	GULF COAST
ACC (USA)	FORT RILEY, KS	DET 8, 1 WXG	FRI	N PLAINS CONTINENTAL	40	724550	GREAT PLAINS
ACC (USA)	FORT RUCKER, AL	DET 9, 1 WXG	OZR	GULF COAST MARITIME	180	722269	GULF COAST
ACC (USA)	FORT SILL AIN, OK	DET 11, 1 WXG	FSI	S PLAINS CONTINENTAL		723550	GREAT PLAINS
ACC (USA)	HUNTER AAF, GA	DET 21, 1 WXG	SVN	FLORIDA MARITIME	90	747804	SOUTHEAST
ACC (USA)	INDIANTOWN GAP, PA	OL-B, DET 2	MUI	NORTHEAST MARITIME	70	725144	NORTHEAST
AETC	COLUMBUS AFB, MS	14 OSS/DOW	CBM	GULF COAST MARITIME	130	723306	GULF COAST
AETC	KEESLER AFB, MS	393 SPTG/OSFWX	BIX	GULF COAST MARITIME	30	747686	GULF COAST
AETC	LAUGHLIN AFB, TX	47 OSS/DOW	DLF	DESERT CONTINENTAL	130	722615	GULF COAST
AETC	MAXWELL AFB, AL	HQ AU/WE	MXF	GULF COAST MARITIME	150	722265	GULF COAST
AETC	RANDOLPH AFB, TX	12 OSS/DOW	RND	GULF COAST MARITIME	140	722536	GULF COAST
AETC	REESE AFB, TX	64 OSS/DOW	REE	S PLAINS CONTINENTAL	170	722675	GREAT PLAINS
AETC	SHEPPARD AFB, TX	80 FTW/DOOW	W12	S PLAINS CONTINENTAL	150	723513	GREAT PLAINS
AETC	VANCE AFB, OK	71 OSS/DOW	END	S PLAINS CONTINENTAL	170	723535	GREAT PLAIN
AFMC	EDWARDS AFB, CA	412 OSS/WE	EDW	DESERT CONTINENTAL	40	723810	SOUTHWEST
AFMC	EGLIN AFB, FL	46 WS/DOW	VPS	FLORIDA MARITIME	120	722210	GULF COAST
AFMC	HILL AFB, UT	649 SG/DOW	HIF	INTER MTN CONTINENTAL	140	725755	ROCKY MTNS
AFMC	KELLY AFB, TX	651 SG/DOW	SKF	GULF COAST MARITIME	150	722535	GULF COAST
AFMC	MCCLELLAN AFB, CA	652 SPTG/DOW	MCC	WEST COAST CONTINENTAL	160	724836	WEST COAST
AFMC	ROBINS AFB, GA	653 SPTG/DOW	WRB	GULF COAST MARITIME	150	722175	SOUTHEAST
AFMC	TINKER AFB, OK	654 SG/DOW	TIK	S PLAINS CONTINENTAL	170	723540	GREAT PLAINS
AFMC	WRIGHT-PATTERSON, OH	645 WS	FFO	MIDWEST CONTINENTAL	50	745700	CENTRAL U.S.

MAJCOM	BASE	UNIT	ICAO	CLIMATIC REGION	RNWY	BLKSTN	GEO-REGION
AFSOC	HURLBURT FIELD, FL	834 ABW/WXF	HRT	FLORIDA MARITIME	180	747770	GULF COAST
AMC	ALTUS AFB, OK	97 OSS/WXF	LTS	S PLAINS CONTINENTAL	170	723520	GREAT PLAINS
AMC	ANDREWS AFB, MD	89 OSS/WX	ADW	NORTHEAST MARITIME	10	745940	NORTHEAST
AMC	CHARLESTON AFB, SC	437 OSS/SSW	IGC	ATLAN COAST MARITIME	150	722083	SOUTHEAST
AMC	DOVER AFB, DE	436 OSS/WXF	DOV	NORTHEAST MARITIME	140	724088	NORTHEAST
AMC	GRISSOM AFB, IN	305 OSS/DOW	GUS	MIDWEST CONTINENTAL	50	725335	CENTRAL U.S.
AMC	KIRTLAND AFB, NM	542 OSS/WXF	IKR	DESERT CONTINENTAL	80	723649	ROCKY MTNS
AMC	LAJES FIELD, PO	65 ALSS/WXF	LPLA	NONE	150	85090	NONE
AMC	LITTLE ROCK AFB, AR	314 OSS/OSW	LRF	MIDWEST CONTINENTAL	70	723405	GULF COAST
AMC	MALMSTROM AFB, MT	43 OSS/DOW	GFA	HIGH PLAINS CONTINENTAL	30	727755	ROCKY MTNS
AMC	MARCH AFB, CA	22 OSS/DOW	RIV	NONE	140	722860	WEST COAST
AMC	MCCHORD AFB, WA	62 OSS/WXF	TCM	NONE	160	742060	WEST COAST
AMC	MCGUIRE AFB, NJ	438 OSS/WXF	WRI	NORTHEAST MARITIME	60	724096	NORTHEAST
AMC	NORTON AFB, CA	63 OSS/WXF	SBD	NONE	60	722866	WEST COAST
AMC	PLATTSBURGH AFB, NY	380 OSS/DOW	PBG	GREAT LAKES	170	726225	NORTHEAST
AMC	RICKENBACKER ANGB, OH	ANG	LCK	MIDWEST CONTINENTAL	50	724285	CENTRAL U.S.
AMC	SCOTT AFB, IL	375 WS	BLV	MIDWEST CONTINENTAL	140	724338	CENTRAL U.S.
AMC	SELFRIDGE ANGB, MI	ANG	MTC	GREAT LAKES	10	725377	CENTRAL U.S.
AMC	TRAVIS AFB, CA	60 OSS/WX	SUU	WEST COAST CONTINENTAL	30	745160	WEST COAST
AMC	WESTOVER, MA	375 WS	CEF	NORTHEAST MARITIME	50	744910	NORTHEAST
PACAF	ANDERSEN AFB, GU	633 OSS/DOW	PGUA	NONE	60	912180	PACIFIC
PACAF	CAMP CASEY, KO	OL-B, DET 3	RKST	KOREA		471066	PACIFIC
PACAF	CAMP HUMPHREYS, KO	DET 2, 51 WS	RKSG	KOREA		471270	PACIFIC
PACAF	CAMP PAGE, KO	OL-A, DET 1	RKNC	KOREA		471040	PACIFIC
PACAF	CAMP RED CLOUD, KO	DET 3, 51 WS	RKSB	KOREA		471060	PACIFIC
PACAF	CAMP STANLEY, KO	OL-A, DET 3	RKSX	KOREA		471064	PACIFIC
PACAF	EIELSON AFB, AK	343 WS/CC	PAEI	NONE	130	702650	ALASKA
PACAF	ELMENDORF AFB, AK	3 OSS/WE	PAED	NONE	50	702720	ALASKA
PACAF	FORT RICHARDSON AIN, AK	OL-A, DET 1	PAFR	NONE		702700	ALASKA
PACAF	FORT WAINWRIGHT, AK	DET 1, 343 WS	PAFB	NONE	60	702615	ALASKA
PACAF	HICKAM AFB, HI	15 WS	PHIK	NONE	80	911803	HAWAII
PACAF	KADENA AB, JP	18 OSS/WE	RODN	NONE	50	479310	PACIFIC

MAJCOM	BASE	UNIT	ICAO	CLIMATIC REGION	RNWY	BLKSTN	GEO-REGION
PACAF	KUNSAN AB, KO	8 OSS/WX	RKJK	KOREA	180	471410	KOREA
PACAF	MISAWA AB, JP	432 OSS/WE	KQSM	NONE	100	475805	PACIFIC
PACAF	OSAN AB, KO	51 OSS/WE	RKSO	KOREA	90	471220	KOREA
PACAF	SCHOFIELD BRKS, HI	DET 1, 15 WS	PHHI	NONE	60	911700	HAWAII
PACAF	SHEMYA AFB, AK	673 OPS/WE	PASY	NONE	100	704140	ALASKA
PACAF	YOKOTA AB, JP	374 OSS/WE	RJTY	NONE	180	476420	PACIFIC
PACAF	YONG SAN AB, KO	DET 1, 51 WS	RKSY	KOREA		471105	KOREA
SPCOM	CAPE CANAVERAL AFS, FL	45 WS	X68	FLORIDA MARITIME	130	747945	SOUTHEAST
SPCOM	PATRICK AFB, FL	5 WS	COF	FLORIDA MARITIME	20	747950	SOUTHEAST
SPCOM	PETERSON AFB, CO	21 OSS/OGSW	PEF	HIGH PLAINS CONTINENTAL	170	724663	ROCKY MTNS
SPCOM	VANDENBERG AFB, CA	30 WS	VBG	NONE	120	723930	WEST COAST
USAFE	AVIANO AB, IT	401 OSS/OGSW	LIYW	NONE	50	160365	Mediterranean
USAFE	BITBURG AB, GE	36 OSS/DOM	EDAB	GERMAN CONTINENTAL	60	106100	GERMANY
USAFE	INCIRLIK AB, TU	39 OSS/WS	KQDG	NONE	50	691464	Mediterranean
USAFE	RAF ALCONBURY, UK	10 TFW/DOM	EGWZ	UK MARITIME	120	35623	ENGLAND
USAFE	RAF LAKENHEATH, UK	48 OSS/DOM	EGUL	UK MARITIME	60	35833	ENGLAND
USAFE	RAF MILDENHALL, UK	100 OSS/DOW	EGUN	UK MARITIME	110	35773	ENGLAND
USAFE	RAF UPPER HEYFORD	20 OSS/DOM	EGUA	UK MARITIME	90	036553	ENGLAND
USAFE	RAMSTEIN AB, GE	A FLT, 86 WS	EDAR	GERMAN CONTINENTAL	90	106140	GERMANY
USAFE	SPANGDAHLEM AB, GE	52 OSS/WEF	EDAD	GERMAN CONTINENTAL	50	106070	GERMANY
USAFE (USA)	ECHTERDINGEN, GE	OL-B, 7 WS	EDOC	GERMAN CONTINENTAL	80	107381	GERMANY
USAFE (USA)	FULDA AAF, GE	DET 6, 7 WS	EDEX	GERMAN CONTINENTAL	80	105360	GERMANY
USAFE (USA)	GIEBELSTADT, GE	DET 10, 7 WS	EDEU	GERMAN CONTINENTAL	80	106530	GERMANY
USAFE (USA)	GRAFENWOEHR AAF, GE	DET 7, 7 WS	EDIC	GERMAN CONTINENTAL	140	106870	GERMANY
USAFE (USA	HANAU AAF, GE	DET 2, 7 WS	EDID	GERMAN CONTINENTAL	100	106420	GERMANY
USAFE (USA)	HEIDELBERG AAF, GE	DET 3, 7 WS	EDIE	GERMAN CONTINENTAL	80	107340	GERMANY
USAFE (USA)	HOHENFELS, GE	OL-A, DET 7, 7 WS	EDIH	GERMAN CONTINENTAL	90	107750	GERMANY
USAFE (USA)	ILLESHEIM AAF, GE	DET 13, 7 WS	EDIK	GERMAN CONTINENTAL	.	107720	GERMANY
USAFE (USA)	KATTERBACH AAF, GE	OL-A, DET 10	EDEB	GERMAN CONTINENTAL	80	107550	GERMANY
USAFE (USA)	SANDHOFEN, GE	OL-A, DET 3, 7 WS	EDOR	GERMAN CONTINETAL	.	107280	GERMANY
USAFE (USA	WIESBADEN AB, GE	DET 26, 7 WS	EDOU	GERMAN CONTINENTAL	80	106330	GERMANY
NA	DOBBINS, GA	AFRES	MGE	GULF COAST MARITIME	110	722270	SOUTHEAST

Appendix C

AIRCRAFT SUPPORTED BY ICAO CALL

Although all the bases incuded in the TAFVERII program are listed here, many (including most Army airfields) do not have aircraft listed, primarily because of the wide variety of aircraft they support. The aircraft listed here are those for which most weather support at the base listed is specifically tailored and directed.

ICAO	AIRCRAFT	ICAO	AIRCRAFT	ICAO	AIRCRAFT
AYE		FEW	MISSILES	MPHO	C-27
BAB	U-2, KC-135	FFO	F-16	MTC	F-16
BAD	B-52, KC-135, KC-10	FHU		MUI	
BIF		FMH	F-15	MUO	F-15, F-16, B-52, E-3, KC-135
BIX	C-130	FRI			
BLV	C-9, C-21, C-12	FSI			
BSM	RF-4C	FTK		MXF	C-12, C-21
BYH		EGUA	F-15	MYR	A-10
BYS		FWH	B-52	OAR	
CBM	T-37, T-38	GFA	KC-135	OFF	EC-135, E-4, RC-135, T-38
CEF	C-5	GRF			
COF	HH-3, C-130	GRK		OSC	B-52
CVS	F-111, EF-111	GSB	F-15E, KC-10	OZR	
DAA		GTB		PAED	F-15
DLF	T-37, T-38	GUS	KC-135	PAEI	F-16, OA-10
DMA	A-10, OA-10, EC-130	HIF	F-16	PAFB	
		HMN	F-117, AT-38, F-4	PAFR	
DOV	C-5	HOP		PAM	F-15
DYS	B-1B, KC-135	HRT		PASY	RC-135
EDAB	F-15	IAB	B-1B	PBG	KC-135
EDAD	F-16, A-10	IGC	C-141, C-17	PDX	F-15
EDAR	F-16, C-21, C-12, C-9	IKR	HC-130	PEF	C-21, C-130
		JAX	F-16	PGUA	
EDEB		KQDG		PHHI	
EDEU		KQSM	F-16	POB	A-10, C-130
EDEX		LCK	A-7	POE	
EDIC		LFI	F-15, UH-1	RCA	B-1B, A-10
EDID		LHW		RDR	B-1B
EDIE		LIYW		REE	T-1, T-37, T-38
EDIH		LIZ	B-52	RIV	KC-10
EDIK		LMT	F-16	RJTY	C-130, C-9, C-21
EDOC	C-12, C-21	LPLA			
EDOR		LRF	C-130	RKJK	F-16
EDOU		LSF		RKNC	
EDW		LSV	F-15, F-16, F-111, A-10	RKSB	
EFD	F-16			RKSG	
EGUL	F-15E, F111	LTS	C-5, C-141, KC-135	RKSO	F-16, OA-10
EGUN	KC-135			RKST	
EGWZ	U-2, C-130	LUF	F-15E, F-16	RKSX	
END	T-1, T-37, T-38	MCC	KC-135	RKSY	
		MCF	F-16	RME	B-52
FAF		MER	B-52, KC-135	RND	T-1, T-37, T-38, T-43
FBG		MGE			
FCS		MIB	B-52H	RODN	F-15, KC-135, E-3, HC-130
		MMT	F-16		

ICAO	AIRCRAFT
SAW	B-52
SBD	C-141, C-21, C-12
SKA	B-52, KC-135, UH-1, T-37
SKF	C-5
SSC	F-16, OA-10
SUU	C-5, C-141
SVN	

ICAO	AIRCRAFT
SZL	B-2
TBN	
TCM	C-141
TIK	E-3B
TOI	
VAD	F-16
VBG	UH-1

ICAO	AIRCRAFT
VCV	
VPS	F-15
W12	T-37, T-38
WRB	KC-135
WRI	C-141
X68	

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45WS, Bldg 423, C. St., Patrick AFB, FL 32925-6537 . . . 1
AFTAC/DOW, Patrick AFB, FL 32925-5000 . . . 2
30WS, Coral Rd., Bldg 21150, Vandenberg AFB, CA 93437-5000 . . . 1
21OSS/OGSW, Hamilton Rd., Stop 22, Peterson AFB, CO 80914-5000 . . . 1
SM-ALC/LH-AWS, McClellan AFB, CA 95652-5609 . . . 1
USAICS, Attn: ATSI-CDW, Ft Huachuca, AZ 85613-6000 . . . 1
USAFA/DFP, Attn: Capt Paul Bellaire, Colorado Springs, CO 80840-5701 . . . 1
AFMC/DOW, Bldg 266, Post 100P Childaw Rd.,Wright-Patterson AFB, OH 45433-5001 . . . 1
FASTC/TAW, 4115 Hobbs Creek Rd., Ste 33, Wright-Patterson AFB, OH 45433-5637 . . . 1
ASD/WE, Bldg 91, 3rd St, Wright-Patterson AFB, OH 45433-6503 . . . 1
AFIT/CIR, Wright-Patterson AFB, OH 45433-6583 . . . 1
WL/DOA, Wright-Patterson AFB, OH 45433-6543 . . . 1
WL/DOW, Wright Patterson AFB, OH 45433-6543 . . . 1
2750ABW/WE, Bldg 206, Area C, Stead Av., Wright Patterson AFB, OH 45433-5643 . . . 1
645 WS/CC, Wright-Patterson AFB, OH 45433-5000 . . . 1
46 TG/WE, Holloman AFB, NM 88330-5000 . . . 1
PL/WE, Kirtland AFB, NM 87117-5000 . . . 1
HQ AFOTEC/WE, Kirtland AFB, NM 87117-7001 . . . 1
RL/WE, Griffiss AFB, NY 13441-5700 . . . 1
ROME LAB/SUL,Corridor W, Ste 262, 26 Electronic Pkwy, Griffiss AFB, NY 13441-4514 . . . 1
AFCESA/WE, Tyndall AFB, FL 32403-5000 . . . 1
325 OSS/OSW, Florida Ave., Stop 22, Bldg 149, Tyndall AFB, IL 32403-5048 . . . 1
AFESC/RDXT, Bldg 1120, Stop 21, Tyndall AFB, FL 32403-5000 . . . 1
ESD/WE, Vandenberg Dr., Bldg 1624, Hanscom AFB, MA 01731-5000 . . . 1
PL/TSML, Research Library, Hanscom AFB, MA 01731-5000 . . . 1
PL/GP, Hanscom AFB, MA 01731-5000 . . . 1
3246TW/DOW, Bldg 60, Rm 60, Eglin AFB, FL 32542-5000 . . . 1
46 WS/CC, Eglin AFB,FL 31542-5000 . . . 1
AFFTC/WE, Edwards AFB, CA 93523-5000 . . . 1
510 OSS/WE, Bldg 1200, Rm 6, Wolfe Ave, Edwards AFB, CA 93523-5000 . . . 1
412 OSS/WE, 95 South Flightline Rd., Edwards AFB, CA 93524-6460 . . . 1
6585 TG/WE, Range Rd, Bldg 1183, Holloman AFB, NM 88330-5000 . . . 1
SMC/SDW, PO Box 92960, Bldg 117, El Segundo, Los Angeles AFB, CA 90009-2960 . . . 1
UTTR/WE, Hill AFB, UT 84056-5000 . . . 1
649 SPTG/DOW, 5970 Southgate Ave, Hill AFB, UT 84056-5232 . . . 1
651 OPS Support Group, Lube St., Bldg 1610, Kelly AFB, TX 78241-5000 . . . 1
2853 ABG/DOW, Bldg 110, Robins AFB, GA 31098-5000 . . . 1
2854 ABG/DOW, Bldg 240, Tinker AFB, OK 73145-5000 . . . 1
USAFA/CWOSW, Air Field Dr., Bldg 9208, USAF Academy, CO 80840-5000 . . . 1
USCENTCOM/CCJ3-W, Bldg 540, MacDill Blvd, MacDill AFB, FL 33608-7001 . . . 1
ESMC/WE, Patrick AFB, FL 32925-5000 . . . 1
OL-A, AFCOS, Ste R, Fort Ritchie, MD 21719-5010 . . . 1
USAFALCENT RA, Pope AFB, NC 28308-5000 . . . 1
CCSO/FL, Tinker AFB, OK 73145-6340 . . . 1
304 ARRS/DOOR, Portland IAP, OR 97218-2797 . . . 1
AFOSR/NL, Bolling AFB, DC 20332-5000 . . . 1
TFWC/WE, Nellis AFB, NV 89191-5000 . . . 1
SMC, Det 2/TDO, Onizuka AFB CA 94088-3430 . . . 1
AL/OEBE, 2402 East Drive, Brooks AFB, TX 78235-5114 . . . 1
653 SPTG/DOW, 250 Eagle Street, Suite 202, Robins AFB, GA 31098-2802 . . . 1
654 SG/DOW, Tinker AFB OK 73145-5000 . . . 1
651 SG/DOW, Kelly AFB, TX 78241-5000 . . . 1
652 SPTG/DOW, 3028 Peacekeeper, Suite 4, McClellan AFB, CA 95652-1020 . . . 1
AMC/XOWR, Bldg P40 N, 402 Scott Dr,. Rm 132, Scott AFB, IL 62225-5363 . . . 1
436 OSS/WXF, Bldg 1730, Vandenberg Ave., McGuire AFB, NJ 08641-5509 . . . 1
89 OSS/WXF, 1240 Mencher Dr, Bldg 1220, Andrews AFB, MD 20331-6511 . . . 1
437 OSS/SSW, 101 S. Bates, STE A, Bldg 162, Charleston AFB, SC 29404-5013 . . . 1
436 OSS/WXF, 501 Eagle Way, STE B, Bldg 501, Dover AFB, DE 19902-5887 . . . 1
23OSS/OSW, Bldg 708, Pope AFB, NC 28308-5000 . . . 1
60 OSS/WX, 401 2d St, Bldg P4, Travis AFB, CA 94535-5886 . . . 1
97 OSS/WXF, Bldg 185, Rm 123, Ave E, Altus AFB, OK 73523-5887 . . . 1
375WS/OGWB, Bldg 433, Hangar Rd, Scott AFB, IL 62225-5029 . . . 1
62 OSS/WXF, Bldg 1172, 1172 E St, McChord AFB, WA 98438-1008 . . . 1
63 OSS/OSW, Bldg 795, Norton AFB, CA 92409-5007 . . . 1
314 OSS/OSW, 2740 First St., Bldg 120, Little Rock AFB, AR 72099-5000 . . . 1
377 ABW/OTW, 2400 Clark Ave, Kirtland AFB, NM 87117-5776 . . . 1
18OW/OGSW, Attn: Lt Kelly, 150 Bennett, Bldg 90730, Hurlburt FLD, FL 32544-5000 . . . 1
ATC/DOTW, 244 F Street East, Suite 63, Randolph AFB, TX 78150-4325 . . . 1
12 OSS/DOW, H-06, 1305 5th Street East, Randolph AFB, TX 78150-4410 . . . 1
14 OSS/DOW, 555 1st St., Suite 63, Columbus AFB, MS 39710-4201 . . . 1
323 OSS/DOW, 4579 9th St., Mather AFB, CA 95655-5000 . . . 1
64 OSS/DOW, 145 N Davis Dr., Bldg 79, Reese AFB, TX 79489-5000 . . . 1
80 FTW/DOOW, J Ave., Bldg 1360, Stop 235, Sheppard AFB, TX 76311-5000 . . . 1
71 OSS/DOW, 623 Elam Rd., Suite 110, Vance AFB, OK 73705-5412 . . . 1
100 FTS/DOW, Bldg S-18, Rm 102, Williams AFB, AZ 85250-5428 . . . 1
47 OSS/DOW, 541 1st St., Suite 2, Laughlin AFB, TX 78843-5210 . . . 1
393 SPTG/DSFXW, 817 H Street, Suite 102, Keesler AFB, MS 39534-2452 . . . 1
815 WS, 817 H St, Ste 201, Keesler AFB, MS 39534-2453 . . . 1
334 TCHTS/TTMV, Bldg 4332, 700 H St, Keesler AFB, MS 39534-2498 . . . 2
502 OSS/OSW, Bldg 64, Rm 117, Maxwell AFB, AL 36112-5000 . . . 1
CFA, C-3/SWO, APO AP 96238-0210 . . . 1
603 ACCS/WE, Unit 2061, APO AP 96278-5000 . . . 1
5OSS/WX, APO AP 96264-5000 . . . 1
Det 15, 30WS, APO AP 96278-5000 . . . 1
OL-A, Det 15, 30WS, APO AP 96278-5000 . . . 1
Det 18, 30WS, Unit 15242, Bldg 1508, APO AP 96205-0015 . . . 1
OL-A, Det 18, 30WS, APO AP 96209-5000 . . . 1
OL-B, Det 18, 30WS, APO AP 96205-0015 . . . 1
Det 19, 30WS, Bldg S 819, Unit 15200, Air Force Weather, APO AP 96271-0139 . . . 1
OL-H, Det 19, APO AP 96212-0139 . . . 1
Det 20, 30WS, Unit 15037,c/o Det 5, 17 CAV, Camp Casey, APO AP 96224-0216 . . . 1
OL-E, Det 20, 30WS, 1st of the 2nd AVN Rt, APO AP 96224-0217 . . . 1
PACAF/DOW, Bldg 1102, Hickam AFB, HI 96853-5000 . . . 1
Det 1, HQ PACAF, COMNAVMAR, PSC 466, Box 20, FPO AP 96540-0051 . . . 1
11OPG/WE, 6600 9th Ste 206, Elmendorf AFB, AK 99506-5000 . . . 1
3OSS/WE, 7th St., Bldg 32235, Elmendorf AFB, AK 99506-5000 . . . 1
623 SPTS/DOS, Bldg 1404, Galena ARPT, AK, APO AP 96510-2250 . . . 1
11WS, 1215 Flightline Ave, Ste 2, Elaison AFB, AK 99702-1520 . . . 1
673OPS/WE, Unit 12508, APO AP 99512-2250 . . . 1
Det 1, 343WS, Bldg 1856, Ft Wainwright AIN, AK 99703-5200 . . . 1
OL-A, Det 5, 11WS, Ft Richardson AIN, AK 99505-5290 . . . 1
15WS, Hickam AFB, HI 96853-5000 . . . 1
633 OSS/DOW, Unit 14035, Box 64, APO AP 96543-5000 . . . 1
Det 1, 15WS, Wheeler AAF, HI 96854-5200 . . . 1
OL-A, Det 1, 15WS, Bradshaw AAF, HI 96986-5000 . . . 1
OL-A, Det 8, 20WS, APO AP 96376-1208 . . . 1
432 OSS/WX, Unit 5011, APO AP 96319-5000 . . . 1
OL-B, Det 17, 20WS, APO AP 96343-5005 . . . 1
374 OSS/DOW, UNIT 5222, APO AP 96328-5222 . . . 1
USSTRATCOM/J3615, Rm L127, Bldg 522, 901 SAC Blvd, Offutt AFB, NE 68113-5000 . . . 1

ACC/DOW, Bldg 21, 30 Elm St, Ste 215, Langley AFB, VA 23655-2093 1

22 OSS/DOW, Bldg 1220, 2145 Graeber St., STE 117, March AFB, CA 92518-1667 1
90 OSS/DOW, 7505 Saber Rd., Bldg 1250, F.E. Warren AFB, WY 82001-5000 1
55 OSS/DOW, 509 SAC Blvd, Ste 1, Bldg T29, Offutt AFB, NE 68113-2094 1
93 OSS/DOW, 7th St., Bldg 1340, Castle AFB, CA 95342-5000 1
92 OSS/OSW, Bldg 1, Fairchild AFB, WA 99011-5000 1
43 OSS/DOW, 7224 Flightline Dr, Rom 209, Bldg 360, Malmstrom AFB, MT 59402- 7526 1
9 OSS/DOW, Gruman Ave., Bldg 1060, Beale AFB, CA 95903-5000 1
96 OSS/DOW, Base Ops Rd., Bldg 9001, Dyess AFB, TX 79607-5000 1
5 OSS/DOW, 221 Flight Line Dr., Bldg 746, Minot AFB, MD 58705-5021 1
384 OSS/DOW, Kansas Ct., Ste 104, Bldg 1112, McConnell AFB, KS 67221-5000 1
2 WS/CC, Bldg 5546, 245 Davis Ave, Barksdale AFB, LA 71110-5002 1
42 OSS/DOW, Georgia Rd., Bldg 8200, Rm 10, Loring AFB, ME 04751-5000 1
416 OSS/OSW, 592 Hanger Rd.,Bldg 100, Ste 121, Griffiss AFB, NY 13441-4520 1
380 OSS/DOW, 22 Alabama Ave., STE 207, Bldg 2712, Rm 100, Plattsburgh AFB, NY 12903-2705 1
97 OSS/WXF, 603 E Ave, STE 1, Altus AFB, OK 73523-5033 1
319 OSS/DOW, 695 Steen Ave., Bldg 528, Ste 106, Grand Forks AFB, ND 58205-6244 1
28 OSS/OSAW, Bldg 7506, Ellsworth AFB, SD 57706-5000 1
509 OSS/OSW, 745 Arnold Ave, Ste 1A, Whiteman AFB, MO 65305-5026 1
7 OSS/DOW, Bldg 1425, Carswell AFB, TX 76127-5000 1
410 OSS/DOW, F Ave., Bldg 401, Ste 7, K.I. Sawyer AFB, MI 49843-3400 1
305 OSS/DOW, Hoosier Blvd, Bldg S-28, Grissom AFB, IN 46971-5000 1
24WS, Unit 0640, APO AA 34001-5000 1
9COS/AOSW, Bldg 1130, Shaw Dr., Shaw AFB, SC 29152-5410 1
OL-A, 363FW/DOMS, RFD 1, McEntire ANGB, Eastover, SC 29044-9690 1
4 Operations Group/OSW, 1980 Curtiss Ave., Ste 140, Bldg 4507, Seymour Johnson AFB, NC 27531-2524 1
354 FW/DOM, 1st St., Bldg 362, Myrtle Beach AFB, SC 29579-5000 1
1 OG/WS, Flightline Ave., Bldg 754, Langley AFB, VA 23665-5508 1
325 OSS/OSW, Stop 22, Tyndall AFB, FL 32403-5048 1
347 OSS/OSW, Savannah St., Bldg 622, Moody AFB, GA 31699-5000 1
56 OSS/OSW, Bldg P3, Rm 101, Florida Ave., McDill AFB, FL 33608-5000 1
12COS/AOSW, 5325 E. Kachina, Bldg 3503, Rm 200, Davis Monthan AFB AZ 85707-4921 1
12COS Base Weather, Bldg 2900, Bergstrom AFB TX 78743-5000 1
27 OSS/OSW, 110 E Sextant Ave., Ste 1040, Cannon AFB, NM 88103-5322 1
355 OSS/OSWF, Phoenix St., Bldg 4820, Davis-Monthan AFB, AZ 85707-6801 1
49 OSS/OSW, Bldg 571, Holloman AFB, NM 88330-5000 1
58 OSS/OSW, 8th St., 7254 N. 142 Ave., Ste 3, Luke AFB, AZ 85309-1233 1
OL-A 58OSS/OSSW, Bldg 324, Gila Bend AFAF, AZ 85337-5000 1
57 OSS/OSW, 27 Depot Rd., Bldg 805, Nellis AFB, NV 89191-5000 1
366 OSS/OSW, 655 Oak St., Mt Home AFB, ID 83648-5401 1
ATSI/CDW, US Army Intel, Ft Huachuca Al, AZ 85613-5000 1
129 ARRS/DOV, NAS Moffett Fld, CA 94035-5008 1
USCENTCOM/CCJ3-W, MacDill AFB, FL 33608-7001 1
USSOCCENT/SOCJ2-SWO, 7115 S. BOUNDARY DR, MacDill AFB, FL 33621-5101 1
USSOCOM/SOJ3-W, MacDill AFB, FL 33608-6001 1
Det 1, NEADS/DOW, Mainelac Ave., Bldg 510, Bangor ANGB, ME 04401-3099 1
101 AREFW/DO, Bangor ANGB, ME 04401-3099 1
1WG, Bldg 168, Hardee St., Ft McPherson, GA 30300-5000 1
OL-A, 5WS, AFZJ/SWO, Ft Irwin, CA 92310-3000 1
Det 1, 1WXG, Bldg 7163, Ft Campbell, KY 42223-5000 1
Det 2, 5WS, Davison USA Airfield, Ft Belvoir, VA 22060-5746 1
OL-B, Det 2, 5WS, Ft Indiantown GAP, PA 17003-5002 1
Det 3, 1WXG, Prager St., Bldg AT3551, Ft Bragg AIN, NC 28307-5000 1
CDR USASOC, Attn: AOIN-ST, Ft Bragg, NC 28307-5200 1
JSOC/Weather, P.O. Box 70239, Ft Bragg, NC 28307-5000 1
Det 4/WXG, Hangar Access Dr., Bldg 2065, Ft Drum, NY 13602-5042 1
Det 5, 1WXG, USAF, Bldg 5220, Ft Knox, KY 40121-5540 1
Det 6, 1WXG, Bldg 3082, Airport Dr., Ft Lewis, WA 98433-5000 1
Det 7, 1WXG, Bldg 518, Ritchie AAF, Ft Ord, CA 93941-5111 1
Det 8, 1WXG, 743 Ray Place, Bldg 743, Ft Riley, KS 66442-5317 1
OL-A, Det 8/WXG, Forney AAF, Bldg 5004, Ft Leonard Wood, MO 65473-5862 1
Det 9, 5WS, Ft Rucker AL 36362-5162 1
OL-A, Det 9, 5WS, Rt 3, Box 302, Troy, AL 36081-5000 1
Det 10, 1WG, Bldg 2485, Rm 110, Lawson AAF, Ft Benning, GA 31905-6034 1
75th RGR (Attn: SWO), Ft Benning, GA 31905-5000 1
Det 11, 1WXG, Post Rd, Bldg 4907, Ft Sill, OK 73503-5100 1
Det 12, 1WXG, Bldg 860, Ft Devens, MA 01433-5310 1
Det 13, 1WXG, Condon Rd., Bldg 2408, Ft Eustis, VA 23604-5252 1
Det 14, 1WXG, Bldg 90049, Rm 118, Gray AAF, W Ft Hood, TX 76544-5076 1
OL-A, Det 14, 1WXG, Stewbdke St., Bldg 11210, Ft Bliss, TX 79916-2418 1
OL-A, Det 21, 1 WXG, Stranch St, Bldg 1252, Hunter AAF, GA 31406-5193 1
Det 31, 1WXG, Ft Polk AFF, Bldg 9226, Ft Polk, LA 71459-6250 1
Det 58, 1WXG, Bldg 9601, Butts AAF, Ft Carson, CO 80913-6403 1
HQ 5th U.S. Army, AFKB-OP (SWO), Ft Sam Houston, TX 78234-7001 1
USAFE/DOW, Unit 3050, Box 15, APO AE 09094-5015 1
17AF/DOW, Unit 4065, APO AE 09136-5000 1
86 OPS GP, Unit 8495, APO AE 09094-5015 1
Det 1, 86WS (USAFE), Unit # 7890, European Forecast Unit, APO AE 09122-7890 1
HQ USEUCOM ECJ3, Unit 30400, Box 1000, APO AE 09128-4209 1
100 OSS/DOW, Unit 4965, APO AE 09458-5000 1
48 OSS/WX, Unit 8300, APO AE 09464-5000 1
36 OSS/WE, Unit 3860, APO AE 09132-5000 1
65 ALSS/WXF, Lajes Field, Azores), APO AE 09720-5000 1
7WS, CINCUSAREUR/AREAWX, APO AE 09403-5000 1
7WS, Unit 29351, APO AE 09014-5000 1
OL-C, 7WS, Cmr 445, Box 260, APO AE 09046 1
OL-F, 7WS, Unit 31401, Box 6, APO AE 09630-5000 1
OL-J, 7WS, CMR 431, APO AE 09175-5000 1
Det 2, 7WS, Unit 20200, APO AE 09165-9816 1
Det 4, 7WS, Unit 31020, APO AE 09025-0251 1
Det 6, 7WS, Cmr 453, APO AE 09146-0979 1
Det 7, 7WS, Unit 28130, APO AE 09114-5000 1
OL-A, Det 7, 7WS, Unit 28216, APO AE 09173-5000 1
Det 8, 7WS, Unit 25202, APO AE 09079-5000 1
Det 9, 7WS, Cmr 423, APO AE 09107-0200 1
OL-B, 7WS, Cmr 422, APO AE 09274-5000 1
OL-A, Det 10, 7WS, CMR454, Unit 31020, APO AE 09250- 5000 1
Det 10, 7WS, Unit 26410, APO AE 09182-0006 1
OL-B, Det 10, 7WS, APO AE 09031-5000 1
Det 11, 7WS, Coleman Brks Wea, Unit 29719, APO AE 09026-3728 1
OL-A, Det 12, 7WS, APO AE 09111-5000 1
Det 13, 7WS, Cmr 416, APO AE 09140-0998 1
Det 26, 7WS, Unit 29632, APO AE 09096-5000 1
435OSS/DOW, uNIT 7435, APO AE 09097-5000 1
20OSS/DOM, Unit 5475, APO AE 09466-5000 1
10 TFW/DOM, Unit 5685, psc 847, APO AE 09470-5000 1
32OSS/WE, Unit 6795, APO AE 09719-5000 1
86WF, Unit 3090, APO AE 09094-5000 1
401 OSS/OGSW, Unit 6160, APO AE 09601-5000 1
52 OSS/WEF, Unit 8870, Box 270, APO AE 09128-0270 1
39 OSS/OSW, Unit 7090, Box 115, APO AE 09824-5000 1
52OSS/WEF, Unit 8870, bOX 270, APO AE 09128-0270 1
OL-C, 7WS, CMR 445, Box 260, APO AE 09046-5000 1
48 Weather Flight, APO AE 09464-5000 1
105 Weather Flight, Tennessee Air National Guard, PO Box 17267, Nashville, TN 37167-2091 1
107 Weather Flight, Selfridge ANGB, MI 48045-5024 1
110 Weather Flight, MO ANG, 131TFW, Bridgeton, MO 63044-2371 1
111 Weather Flight, Ellington ANGB, TX 77034-5586 1
113 Weather Flight, Hulman Fld, Terre Haute, IN 47830-5000 1
116 Weather Flight, WA ANG, Bldg 304, McChord AFB, WA 98433-5000 1
120 Weather Flight, Buckley ANGB, CO 80011-9569 1
121 Weather Flight, Stop 29, Andrews AFB, MD 20331-6539 1
122 Weather Flight, New Orleans NAS, LA 70143-0200 1
123 Weather Flight, Portland IAP, OR 97218-2797 1
125 Weather Flight, PO Box 580340, Tulsa AFS, OK 74158-0340 1
126 Weather Flight, WIANG, 350 E College, Milwukee, WI 53207-6298 1
127 Weather Flight, Forbes Fld, Topeak, KS 66619-5000 1
130 Weather Flight, Yeager Apt, Charleston, WV 25311-5000 1
131 Weather Flight, Barnes Map, Westfield, MA 01085-1385 1
140 Weather Flight, Willow Grove NAS, PA 19090-5105 1
146 Weather Flight, GTR Pittsburg ANG AN, PA 15231-0459 1
154 Weather Flight, Camp Robinson, North Little Rock, AR 72118-2200 1
156 Weather Flight, 5225 Morris Fld Dr., Charlotte, NC 28208-5797 1
159 Weather Flight, c/o HQ FLANG, State Arsenal, St Augustine, FL 32085-1008 1
164 Weather Flight, Rickenbacker ANGB, OH 43217-5007 1
165 Weather Flight, Standiford Fld, Louisville, KY 40213-2678 1
181 Weather Flight, 8150 W Jefferson Blv, Dallas, TX 75211-6570 1
195 Weather Flight, 4146 Naval Air Rd., Port Hueneme, CA 93041-4001 1
199 Weather Flight, Wheeler AFB, HI 96854-5000 1
200 Weather Flight, 5680 Beulah Rd., Sandston, VA 23150-6109 1
202 Weather Flight, Otis ANGB, MA 02542-5029 1

203 Weather Flight, Ft Indiantown GAP, Annville, PA 17003-5002 1
204 Weather Flight, McGuire AFB, NJ 08641-6004 1
207 Weather Flight, 3556 N. Michigan Rd., Shelbyville, IN 46176-4614 1
208 Weather Flight, 208 Airport DE, St Paul, MN 55107-4098 1
209 Weather Flight, PO Box 5218, Austin, TX 78763-5218 1
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Army Training and Doctrine Command, ATDO-IW (ATTN: SWO), Ft Monroe VA 23651-5000 1

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White Sands Met Team, AMSTE-TC-AM (WS), White Sands Missile Range, NM 88002-5501 1
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